U.S. Patent Application No.: 10/622,065 Amendment dated September 8, 2004 Reply to Office Action of June 9, 2004 PATENT

Attorney Docket No.: 606-55-PCT-CON

Amendments to the Claims:

The following listing of the claims replaces all previous listings and versions of the claims in the application.

<u>Listing of the Claims:</u>

1. (Currently Amended) A shape memory alloy actuator comprising:

a body having an activating member such that said activating member is moved between a first and a second position when said body is moved between a third and a fourth position,

releasable holding means for holding said body in said third position, <u>said holding means</u> comprising a pawl mechanism,

at least one first and at least one second wire made of a shape memory alloy such as nitinel, said first wire being connected to said body such that shortening of the length of said first wire exerts a force on said body for moving same from said fourth to said third position, and

a biasing means, such as a tension or compression spring or selected from the group consisting of one or more of a tension spring, a compression spring, and a piston and cylinder mechanism, attached to said body for biasing said body for moving same from said third to said fourth position,

said <u>at least one</u> second wire being arranged such relative to said holding means that shortening of the length of said second wire or wires releases said holding means allowing said biasing means to move said body from said third position to said fourth position.

- 2. (Original) An actuator according to claim 1 and further comprising means for intermittently directing a n electric current through said first and second wires for heating same to at least the shape memory alloy transformation temperature.
- 3. (Currently Amended) An actuator according to claim 1, wherein said holding means <u>further</u> comprises a brake mechamosm

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Claim 4: (Canceled)

- 5. (Original) An actuator according to claim 1, wherein said body is pivotably attached to a frame, said first and second wires are attached at one end thereof to said frame and connected at the other end thereof with said body such that shortening of the length of said first wire exerts a pivoting force on said body in one pivoting direction and shortening of the length of said second wire exerts a pivoting force on said body in the opposite pivoting direction, and said biasing means is attached to said frame and arranged for exerting a pivoting force on said body in at least one of said pivoting directions.
- 6. (Original) An actuator according to claim 5, wherein said biasing means is arranged for exerting a pivoting force on said body in both said pivoting directions with an intermediate balance point wherein said biasing means does not exert a pivoting force on said body.

Claims 7-11: (Canceled)

- 12. (Currently Amended) A shape memory alloy actuator comprising:
- a body having an activating member such that said activating member is moved between a first and a second position when said body is moved between a third and a fourth position,

holding means for holding said body in said third position, said holding means comprising a pawl mechanism,

at least one first wire and at least one second wire made of a shape memory alloy such as nitinel, said first wire being connected to said body such that shortening of the length of said first wire exerts a force on said body for moving same from said fourth to said third position, and

a biasing means, such as a tension or compression spring or selected from the group consisting of at least one of a compression spring, a tension spring, and a piston and cylinder mechanism attached to said body for biasing said body for moving same from said third to said fourth position,

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said second wire being arranged such relative to said holding means <u>so</u> that shortening of the length of said second wire releases said body from said holding means such that said biasing means may move said body from said third position to said fourth position.

13. (Original) An actuator according to claim 12 and further comprising means for intermittently directing an electric current through said first and second wires for heating same to at least the shape memory alloy transformation temperature.

14. (Currently Amended) An actuator according to claim 12, wherein said holding means <u>further</u> comprises a brake mechanism.

Claim 15: (Canceled)

16. (Original) An actuator according to claim 12, wherein said body is pivotably attached to a frame, said first and second wires are attached at one end thereof to said frame and connected at the other end thereof with said body such that shortening of the length of said first wire exerts a pivoting force on said body in one pivoting direction and shortening of the length of said second wire exerts a pivoting force on said body in the opposite pivoting direction, and said biasing means is attached to said frame and arranged for exerting a pivoting force on said body in at least one of said pivoting directions.

17. (Original) An actuator according to claim 16, wherein said biasing means is arranged for exerting a pivoting force on said body in both said pivoting directions with an intermediate balance point wherein said biasing means does not exert a pivoting force on said body.

Claims 18-19 (Canceled)